

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Chen et al.

Application No. 10/020,708

Filed: December 14, 2001

Confirmation No. 9604

For: ADAPTIVE WINDOW-SIZE SELECTION
IN TRANSFORM CODING

Examiner: Angela A. Armstrong


Art Unit: 2626

Attorney Reference No. 3382-61343-01

CERTIFICATE OF MAILING

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Attorney or Agent
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37 C.F.R. § 1.97(c)

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent. This Information Disclosure Statement ("IDS") is being mailed before Applicant received a final action, a notice of allowance, or an action that otherwise closes prosecution in the referenced application.

Copies of United States patents and United States published patent applications do not have to be provided to the Patent Office (37 C.F.R. 1.98(a)(2)(ii)). Copies of unpublished U.S. applications do not have to be provided, as long as the application is available on PAIR, as this requirement of 37 C.F.R. § 1.98(a)(2)(iii) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on October 19, 2004 (1287 OG 163). Applicant will provide copies of such patents or applications upon request.

Submitted herewith is a check for \$180.00 as required by 37 C.F.R. § 1.17(p) for filing this IDS in compliance with 1.97(c).

Please charge any additional fees which may be required in connection with filing this IDS, or credit any overpayment, to Deposit Account No. 02-4550. A duplicate copy of this sheet is enclosed.

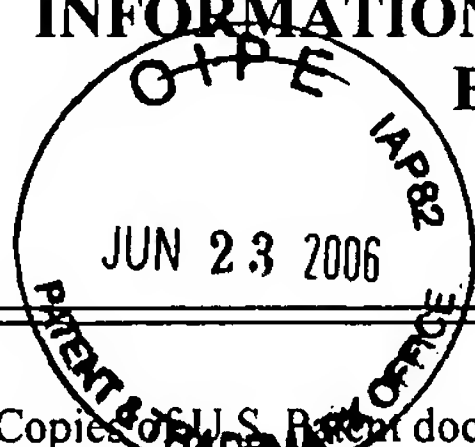
The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

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**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**


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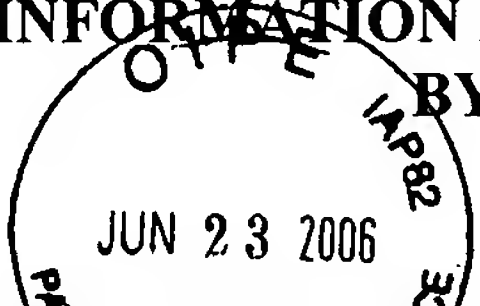
U.S. PATENT DOCUMENTS

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Issue/ Publication Date	Name of Applicant or Patentee
		2003/0115052	Jun-2003	Chen et al.
		2005/0165611	Jul-2005	Mehrotra et al.
		5,325,215	Jun-1994	Shibata et al.
		5,357,594	Oct-1994	Fielder
		5,379,351	Jan-1995	Fandrianto et al.
		5,590,066	Dec-1996	Ohki
		5,970,173	Oct-1999	Lee et al.
		5,995,539	Nov-1999	Miller
		6,029,126	Feb-2000	Malvar
		6,073,153	Jun-2000	Malvar
		6,154,762	Nov-2000	Malvar
		6,301,304	Oct-2001	Jing et al.
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		6,363,117	Mar-2002	Kok
		6,370,502	Apr-2002	Wu et al.
		6,473,534	Oct-2002	Merhav et al.
		6,487,574	Nov-2002	Malvar

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		6,496,795	Dec-2002	Malvar
		6,507,614	Jan-2003	Li
		6,687,726	Feb-2004	Schneider
		6,694,342	Feb-2004	Mou
		6,701,019	Mar-2004	Wu et al.
		6,728,317	Apr-2004	Demos
		6,882,685	Apr-2005	Malvar

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		Germany	4133460 A1	Apr-1993	Blonstein et al.
		EPO	854653	Jul-1998	Ding Wei
		CA	2452343	Jan-2003	Demos
		JP	2003-348598	Dec-2003	Buhaskaran et al.

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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
		Advanced Television Systems Committee, "ATSC Standard: Digital Audio Compression (AC-3), Revision A," pp. 1-140 (August 2001).
		Arai, et al., "A Fast DCT-SQ Scheme for Images," The Transactions of the IEICE, vol. E 71, No. 11, Nov. 1988, pp. 1095-1097.
		Bjontegaard, "H.26L Test Model Long Term Number 8 (TML-8) Draft 0," <i>Video Coding Experts Group (VCEG)</i> , pp. 1-46.
		Brandenburg, "ASPEC CODING", <i>AES 10th International Conference</i> , pp. 81-90 (1991).
		Calderbank et al., "Wavelet Transforms that Map Integers to Integers," pp. 1-39 (August 1996).
		Cham, "Development of Integer Cosine Transforms by the Principle of Dyadic Symmetry," <i>IEE Proceedings</i> , Vol. 136, Pt. 1, No. 4, pp. 276-282 (August 1989).
		W. Chen, C. H. Smith, and S. C. Fralick, "A fast computational algorithm for the discrete cosine transform," <i>IEEE Trans. Commun.</i> , vol. 25, pp. 1004-1009, Sept. 1977.
		J. W. Cooley and J. W. Tukey, "An algorithm for the machine calculation of complex Fourier series," <i>Math. Computation</i> , vol. 19, pp. 297-301, 1965.
		R. Cox, "The design of uniformly and nonuniformly spaced pseudoquadrature mirror filters" <i>IEEE Transactions on Acoustics, Speech, and Signal Processing</i> , vol. 34, pp. 1090-1096, Oct. 1986.
		ISO/IEC 13818-7, "Information Technology-Generic Coding of Moving Pictures and Associated Audio Information," Part 7: Advanced Audio Coding (AAC), pp. i-iv, 1-148 (1997).
		ISO/IEC 13818-7, Technical Corrigendum 1, "Information Technology-Generic Coding of Moving Pictures and Associated Audio Information," Part 7: Advanced Audio Coding (AAC), Technical Corrigendum, pp. 1-22 (1997).
		Li et al., "On Implementing Transforms from Integers to Integers," <i>Department of Electrical Engineering, Princeton University</i> , pp. 881-885, June 1998.
		Liang et al., "A 16-bit Architecture for H.26L, Treating DCT Transforms and Quantization," <i>Thirteenth Meeting: Austin, Texas, USA</i> , pp. 1-20 (April 2001).
		Liang et al., "Fast Multiplierless Approximation of the DCT with the Lifting Scheme," <i>Proc. SPIE Apps. of Digital Image Processing XXIII</i> , 12 pp. (August 2000).
		C. Loeffler et al., "Practical fast 1-D DCT algorithms with 11 multiplications," <i>Proc. IEEE ICASSP</i> , vol. 2, pp. 988-991, Feb. 1989.

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		H. S. Malvar, "Biorthogonal and nonuniform lapped transforms for transform coding with reduced blocking and ringing artifacts", <i>IEEE Transactions on Signal Processing</i> , vol. 46, pp. 1043-1053, Apr. 1998.
		H. S. Malvar, "Enhancing the performance of subband audio coders for speech signals", <i>Proc. 1998 IEEE International Symposium on Circuits and Systems</i> , vol. 5, pp. 98-101, June 1998.
		H. Malvar, "Fast computation of the discrete cosine transform and the discrete Hartley transform," <i>IEEE Trans. Acoust., Speech, Signal Processing</i> , vol. ASSP-35, pp. 1484-1485, Oct. 1987.
		O. A. Niamut and R. Heusdens, "Subband merging in cosine-modulated filter banks", <i>IEEE Signal Processing Letters</i> , vol. 10, pp. 111-114, Apr. 2003.
		Rubino et al., "Improved Chen-Smith Image Coder," 1993 IEEE International Symposium on Circuits and Systems, ISCAS 1993, pp. 267-270, 1993.

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